## **CLAIMS**

What is claimed is:

1. A USB extender for extending the distance between a host and a device, the USB extender comprising:

a controller:

a host transceiver connectable to a USB host and configured to transmit to the USB host both standard USB commands and non-standard USB commands received from the controller; and

a device transceiver connectable to a USB device and configured to receive both standard USB commands and non-standard USB commands from the USB device and to transmit the received USB commands to the controller;

wherein the controller is configured to determine the nature of the USB commands received at the device transceiver and to transmit determined commands to the host transceiver.

- 2. The USB extender of claim 1 wherein the host transceiver is further configured to receive USB commands from the host and to transmit the received USB commands to the controller.
- 3. The USB extender of claim 2 wherein the device transceiver is further configured to transmit to the device USB commands received from the controller.
- 4. The USB extender of claim 3 wherein the controller is further configured to determine the nature of the USB commands received at the host transceiver and to transmit determined commands to the device transceiver.
- 5. A USB extender for extending the distance between a host and a device, the USB extender comprising:
  - a host unit connectable to a USB host and configured to transmit to the host both standard USB commands and non-standard USB commands received from a device unit via a non-USB communications channel;

a device unit connectable to a USB device and configured to receive both standard USB commands and non-standard USB commands from the USB device and transmit the received commands to the host unit via the non-USB communications channel; and

a non-USB communications channel between the host unit and the device unit.

- 6. The USB extender of claim 5 wherein at least one non-standard USB command received by the device unit from the device is a Mac power-on command.
- 7. The USB extender of claim 6 wherein the host unit comprises a host power status detector.
- 8. The USB extender of claim 7 wherein the USB extender is configured to maintain a voltage from the host to the USB device when the host is in a lower power mode and wherein the USB extender is configured to create a change in a maintained voltage when the device unit receives Mac power-on command.
- 9. The USB extender of claim 8 wherein the maintained voltage is about 0.7 volts to about 1 volt.
- 10. The USB extender of claim 5 wherein at least one non-standard USB command received by the device unit from the device is a SUN power management command.
- 11. The USB extender of claim 5 wherein the host unit and device unit each comprise a USB to non-USB signal converter for converting USB signals to non-USB signals and a non-USB to USB signal converter for converting non-USB signals to USB signals.

12. The USB extender of claim 11 wherein the non-USB to USB signal converter and USB to non-USB signal converter are the same signal converter.

- 13. The USB extender of claim 5 wherein the host unit and device unit each comprise a voltage regulator for regulating voltage from the host to the USB device.
- 14. The USB extender of claim 5 further comprising a hub for accepting USB commands from multiple USB devices.
- 15. The USB extender of claim 14 wherein a device unit controller is configured to determine the device from which the USB commands are received.
- 16. The USB extender of claim 5 wherein the host unit is further configured to receive USB commands from a host and to transmit the received USB commands to the device unit via a non-USB communications channel.
- 17. The USB extender of claim 5 wherein the device unit is further configured to receive USB commands from a host unit via a non-USB communications channel and to transmit the received USB commands to the device.
- 18. The USB extender of claim 5 wherein the USB extender is compatible with at least one of USB 1.x and USB 2.x.
- 19. A method for extending the distance between a host and a Mac keyboard device that uses non-standard USB commands, the method comprising:

detecting the host power status by a host unit;

maintaining a voltage from the host to the keyboard when the host is powered down;

receiving a USB command from the keyboard at a USB extender device unit;

determining the nature of the command;

coupling the maintained voltage to ground upon determining that the host is powered down and the received command is a Mac power-on command; transmitting the received USB command from the USB extender device unit over a non-USB communications channel to a USB extender host unit; and transmitting the USB command received at the USB extender host unit to the host over a USB communications channel.

20. The method of claim 16 further comprising responding to a request from a host with a not acknowledge command and sending the request to the USB device.